| | Application No. | Applicant(s) |
|---|---|---|
| **Notice of Allowability** | 10/047,792 | BARKER ET AL. |
| | Examiner | Art Unit | |
| | Tuan A. Vu | 2193 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/21/05*.

2. ☒ The allowed claim(s) is/are *1-3, 5-12, 14-21, 23-31 ( renumbered 1-28)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None  of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

    Paper No./Mail Date _____.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 20051031; 20060121

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20060206 .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

## DETAILED ACTION

1.      This action is responsive to the Applicant's response filed 11/21/2005.

As indicated in Applicant's Brief, claims 1-32 are pending in the office action.

Following are the actions taken in response to the subject matter and corresponding observations

presented in the Brief.

## EXAMINER'S AMENDMENT

2.      An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Joseph Van LeeuWen, Reg # 42196 on 2/6/2006.

The application has been amended as follows:

In the SPECIFICATIONS:

Please amend the section entitled RELATED APPLICATIONS, as follows:


Related Applications

This application is related to the following co-pending U.S. Patent Applications filed on

the same day as the present application: "System and Method for Mapping Management Objects

to Console Neutral User Interface," by Barker, Diller, Gay, Hedstrom, Persche, Salahshoor, and

Thorpe ~~(Docket No. RSW920010049US1)~~ (Appl. No. 10/046,940); "System and Method for

Managing Translatable Strings Displayed on Console Interfaces," by Barker, Diller, Hedstrom,

Persche, Salahshoor, and Thorpe ~~(Docket No. RSW920010050US1)~~ (Appl. No. 10/047,793);

"System and Method for Obtaining Display Names from Management Models," by Barker,

Diller, Hedstrom, Persche, Salahshoor, and Thorpe ~~(Docket No. RSW920010051US1)~~ (Appl.

No. 10/047,784); and "System and Method for Packaging and Installing Management Models

with Specific Console Interfaces," by Barker, Diller, Hedstrom, Persche, Salahshoor, and Thorpe

~~(Docket No. RSW920010187US1)~~ (Appl. No. 10/047,312). The present application and each of

the related applications have been assigned to the IBM Corporation.

In the CLAIMS:

**Claim 1**:

A method of converting management models to one or more console interfaces, said

method comprising:

receiving a console selection corresponding to one of the console interfaces;

identifying one or more console algorithms corresponding to the console selection;

retrieving a generic management object from a management definition object that

corresponds to at least one of the identified console algorithms; ~~and~~

identifying one or more object classes and one or more object associations that include

the object classes based on the retrieved generic management object;

selecting one of the identified object classes;

selecting one of the associations that include the selected object class, wherein the

association includes a simple association;

identifying one or more target classes corresponding to the selected association;

locating one or more second associations corresponding to the identified target class;

determining a layout format based on the number of located second associations; and

creating an extension file that includes the layout format and that is adapted to perform

the generic management object on the selected console interface.

**Claim 4**: (canceled)

**Claim 5**:

The method as described in claim [[4]] 1 further comprising:

displaying the target class name in response to determining that there is one second association; and

displaying the association role in response to determining that there are more than one second associations.

**Claim 10**:

An information handling system comprising:

one or more processors;

a memory accessible by the processors;

a nonvolatile storage area accessible by the processors; and

a conversion tool stored in the memory and executed by the processors for converting generic management data to specific console interfaces, the conversion tool including:

receiving logic for receiving a console selection corresponding to one of the console interfaces;

identification logic for identifying one or more console algorithms corresponding to the console selection;

retrieval logic for receiving a generic management object from a management definition object that corresponds to at least one of the identified console algorithms; and;

identification logic for identifying one or more object classes and one or more object associations that include the object classes based on the retrieved generic management object;

selection logic for selecting one of the identified object classes;

selection logic for selecting one of the associations that include the selected object class,

wherein the association includes a simple association;

identification logic for identifying one or more target classes corresponding to the

selected association;

identification logic for locating one or more second associations corresponding to the

identified target class;

layout determination logic for determining a layout format based on the number of

located second associations; and

creation logic for creating an extension file that includes the layout format and that is

adapted to perform the generic management object on the selected console interface.

**Claim 13**: (canceled)

**Claim 14**:

The information handling system as described in claim 10 [[13]] further comprising:

display logic for displaying the target class name in response to determining that there is

one second association and for displaying the association role in response to determining that

there are more than one second associations.

**Claim 19**:

A computer program product stored in ~~on~~ a computer readable ~~operable~~ medium that

includes computer instructions that, when executed by a data processing system, causes the data

processing system to perform actions that include: ~~for converting management models to one or~~

~~more console interfaces, said computer program product comprising:~~

~~means for~~ receiving a console selection corresponding to one of the console interfaces;

~~means for~~ identifying one or more console algorithms corresponding to the console selection;

~~means for~~ retrieving a generic management object from a management definition object that corresponds to at least one of the identified console algorithms; ~~and~~

identifying one or more object classes and one or more object associations that include the object classes based on the retrieved generic management object;

selecting one of the identified object classes;

selecting one of the associations that include the selected object class, wherein the association includes a simple association;

identifying one or more target classes corresponding to the selected association;

locating one or more second associations corresponding to the identified target class;

determining a layout format based on the number of located second associations; and

~~means for~~ creating an extension file that includes the layout format and that is adapted to perform the generic management object on the selected console interface.

**Claim 22**: (canceled)

**Claim 23**:

The computer program product as described in claim 19 [[22]] further comprising computer instructions that perform actions that include:

~~means for~~ displaying the target class name in response to determining that there is one second association; and

~~means for~~ displaying the association role in response to determining that there are more than one second associations.

**Claim 24**:

The computer program product as described in claim 19 further comprising <u>computer instructions that perform actions that include</u>:

means-for retrieving user interface data from the management definition object; and

means-for generating one or more graphical user interfaces using the retrieved user interface data.

**Claim 25**:

The computer program product as described in claim 19 further comprising <u>computer instructions that perform actions that include</u>:

means-for retrieving user interface data from the management definition object;

means-for converting the user interface data to one or more national languages;

means-for storing the converted user interface data in one or more national language files;

means-for selecting one of the national languages;

means-for retrieving one of the national language files corresponding to the selected national language; and

means-for generating one or more graphical user interfaces using the converted user interface data retrieved from the national language file.

**Claim 26**:

The computer program product as described in claim 19 further comprising <u>computer instructions that perform actions that include</u>:

means-for creating a tree node displayable on a management console corresponding to the selected console interface;

~~means for~~ creating a popup menu corresponding to the tree node, wherein the popup

menu includes one or more menu selections; and

~~means for~~ associating a method to each of the menu selections.

**Claim 28:**

A method of converting management models to one or more console interfaces, said

method comprising:

receiving a console selection corresponding to one of the console interfaces;

identifying one or more console algorithms corresponding to the console selection;

retrieving a generic management object from a management definition object that

corresponds to at least one of the identified console algorithms;

creating an extension file adapted to perform the generic management object on the

selected console interface, the extension file including a layout format;

identifying one or more object classes and one or more object associations that include

the object classes based on the retrieved generic management object;

selecting one of the identified object classes;

selecting one of the associations that include the object class, wherein the association

includes a simple association;

identifying one or more target classes corresponding to the selected association;

locating one or more second associations corresponding to the identified target class; and

determining the [[a]] layout format based on the number of located second associations.

**Claim 29:**

A method of converting management models to one or more console interfaces, said

method comprising:

receiving a console selection corresponding to one of the console interfaces;

identifying one or more console algorithms corresponding to the console selection;

retrieving a generic management object from a management definition object that

corresponds to at least one of the identified console algorithms;

creating an extension file adapted to perform the generic management object on the

selected console interface, the extension file including one or more graphical user interfaces;

retrieving user interface data from the management definition object;

converting the user interface data to one or more national languages, wherein the national

languages are specified in one or more classes included in the management definition object;

storing the converted user interface data in one or more national language files;

selecting one of the national languages;

retrieving one of the national language files corresponding to the selected national

language; and

generating one or more of the graphical user interfaces using the converted user interface

data retrieved from the national language file.

**Claim 30**:

An information handling system comprising:

one or more processors;

a memory accessible by the processors;

a nonvolatile storage area accessible by the processors; and

a conversion tool <u>stored in the memory and executed by the processors</u> for converting generic management data to specific console interfaces, the conversion tool including:

receiving logic for receiving a console selection corresponding to one of the console interfaces;

identification logic for identifying one or more console algorithms corresponding to the console selection;

retrieval logic for receiving a generic management object from a management definition object <u>that corresponds to at least one of the identified console algorithms</u>; ~~and~~

creation logic for creating an extension file adapted to perform the generic management object on the selected console interface<u>, the extension file including a layout format</u>;

identification logic for identifying one or more object classes and one or more object associations that include the object classes <u>based on the retrieved generic management object</u>;

selection logic for selecting one of the <u>identified</u> object classes and for selecting one of the associations that include the object class, wherein the association includes a simple association;

identification logic for identifying one or more target classes corresponding to the selected association;

location logic for locating one or more second associations corresponding to the identified target class;

determination logic for determining <u>the</u> [[a]] layout format based on the number of located second associations; and

display logic for displaying the target class name <u>in the layout format</u> in response to

determining that there is one second association and for displaying the association role in

response to determining that there are more than one second associations.

**Claim 31**:

A computer program product stored <u>in</u> ~~on~~ a computer <u>readable</u> ~~operable~~ medium <u>that</u>

<u>includes computer instructions that, when executed by a data processing system, causes the data</u>

<u>processing system to perform actions that include</u>: ~~for converting management models to one or~~

~~more console interfaces, said computer program product comprising~~:

~~means for~~ receiving a console selection corresponding to one of the console interfaces;

~~means for~~ identifying one or more console algorithms corresponding to the console

selection;

~~means for~~ retrieving a generic management object from a management definition object

<u>that corresponds to at least one of the identified console algorithms</u>;

~~means for~~ creating an extension file adapted to perform the generic management object

on the selected console interface<u>, the extension file including a layout format</u>;

~~means for~~ identifying one or more object classes and one or more object associations that

include the object classes <u>based on the retrieved generic management object</u>;

~~means for~~ selecting one of the object classes;

~~means for~~ selecting one of the <u>identified</u> associations that include the object class,

wherein the association includes a simple association;

means-for-identifying one or more target classes corresponding to the selected

association;

means-for-locating one or more second associations corresponding to the identified target

class;

means-for-determining a layout format based on the number of located second

associations;

means-for-displaying the target class name in the layout format in response to

determining that there is one second association; and

means-for-displaying the association role in the layout format in response to determining

that there are more than one second associations.

Claim 32: (canceled)

### EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

3.      Claims 1-3, 5-12, 14-21, and 23-31 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art taken separately or jointly does not suggest or teach the following features.

A method and a computer product with instructions to convert management model object

to a console interface, comprising (i) retrieving a console selection to one of the console

interfaces and retrieving a console algorithm corresponding to the selection; (ii) retrieving a

generic management object from a definition object corresponding to the identified algorithm;

selecting the object classes based on the generic management object and a first association

including the object class; and (iii) creating a extension file adapted to perform the generic

management object on the selected console interface, the extension file including a layout format

and (iv) identifying a target class corresponding to the first association; locating one or more second associations corresponding to the identified target class; and determining the layout format based on the located second associations; as recited in claim 1, 10, 19, 28, 30, and 31.

A method for converting management models to one or more console interfaces, comprising steps (i) and (ii) from above, and further comprising (v) creating a extension file adapted to perform the generic management object on the selected console interface, the extension file including a graphical user interface; (vi) retrieving the user interface data from the management definition object, converting the data to one or more national languages, wherein the languages are specified in one or more classes included in the management definition object; (vii) selecting on national language and retrieving one of the national language files corresponding to the selection; and generating one or more of the graphical user interface using the converted data retrieved from the national language file; as recited in claim 29.

**Patrizio et al.**, USPN: 20030095145, discloses retrieving objects for a modeling tool interface; selecting the MOF specification file as well as pertinent properties sheets for the selected objects presented on the panel interface; and effect API calls to retrieve further associated data fulfilling the schema required by the MOF specification; but Patrizio fail to teach or suggest a selection console for console interface as in (i); and an extension file including the layout format, the format being determined by identified classes and first and second association based on the generic management object, the extension file adapted to perform the generic management object on the selected console interface based on the determined layout format as in (ii)→(iv); nor does Patrizio teach/suggest the extension file to perform the GUI based on

converted data for languages specified in one or more classes of the management object of (v) →

(vii).

**Agnihotri et al.**, USPN : 20030095145, discloses a framework wherein console interface

offers selection of one Enterprise management console; and have discovery module to retrieve

components for implementing a in-context launch wrapper in order to integrate different device

management applications into multiple Enterprise console types; but Agnihotri's applet

integration approach is not clearly suggesting or providing the management objects in

conjunction with layout format extension file of (ii), the target class and second association of

step (iii), (iv) to determine the layout format; or the language definition classes of (v) –(vii).

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

*Conclusion*

4.      Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tuan A Vu whose telephone number is (272) 272-3735. The

examiner can normally be reached on 8AM-4:30PM/Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kakali Chaki can be reached on (571)272-3719.

The fax phone number for the organization where this application or proceeding is

assigned is (571) 273-3735 ( for non-official correspondence – please consult Examiner before

using) or 571-273-8300 ( for official correspondence) or redirected to customer service at 571-

272-3609.

Any inquiry of a general nature or relating to the status of this application should be

directed to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


VAT
February 6, 2006

KAKALI CHAKI
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